

Substitute for form 1449A&B/PTO				Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(Use as many sheets as necessary)</i>				Application Number	09/432,503
				Filing Date	November 2, 1999
				First Named Inventor	Cech, Thomas R.
				Art Unit	1635
				Examiner Name	Jon E. Angell
Sheet	1	of	8	Attorney Docket Number 015389-002611US	

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No.*	Document Number Number Kind Code ² (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
1		US 2004-0242529 A1	12-02-2004	Cech et al.	
2		US 2004-0247613 A1	12-09-2004	Cech et al.	
3		US 2005-0013825 A1	01-20-2005	Cech et al.	
4		US 4,554,101	11-19-1985	Hopp	
5		US 5,001,225	03-19-1991	Taylor	
6		US 5,075,227	12-24-1991	Hagen	
7		US 5,639,613	06-17-1997	Shay et al.	
8		US 5,853,719	12-29-1998	Nair et al.	
9		US 5,919,656	07-06-1999	Harrington et al.	
10		US 6,306,388 B1	10-23-2001	Nair et al.	
11		US 6,387,701 B1	05-14-2002	Nair et al.	
12		US 6,545,133 B1	04-08-2003	Weinrich et al.	
13		US 6,787,133 B2	09-07-2004	Weinrich et al.	
14		US 7,262,174 B2	08-28-2007	Jiang et al.	
15		US 7,262,288 B1	08-28-2007	Cech et al.	
16		US 7,285,639 B2	10-23-2007	Cech et al.	
17		US 60/038,750		Counter et al.	
18		US 09/432,503		Cech et al.	

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19		CA 2,194,393 A1	01-25-1996	Geron Corporation	
20		EP 0 799 315 A2	10-08-1997	Cold Spring Harbor Lab.	
21		EP 1 093 381 B1	08-20-2003	GemVax AS	
22		WO 82/01461 A1	05-13-1982	Stanford University	
23		WO 97/38013 A1	10-16-1997	Geron Corporation	
24		WO 99/63945 A2	12-16-1999	Sloan-Kettering Institute	

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T ²						
25	WO 00/02581	Number ⁴	Kind Code ⁵ (if known)	01-20-2000	Norsk Hydro AS	<input type="checkbox"/>
26	WO 00/61766	A1		10-19-2000	Biomira, Inc.	<input type="checkbox"/>
27	WO 00/73420	A2		12-07-2000	Whitehead Inst. et al.	<input type="checkbox"/>
28	WO 01/60391	A1		08-23-2001	Regents of the Univ. of California	<input type="checkbox"/>
29	WO 02/094213	A2		11-28-2002	Dow Corning Toray Silicone Co., Ltd.	<input type="checkbox"/>
30	WO 03/038047	A2		05-08-2003	Baylor College of Medicine	<input type="checkbox"/>

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	31	Adaptive definition, www.answers.com/topic/adaptive , 1 page (2007).	<input type="checkbox"/>
	32	ALBERTS, B. et al., <i>Molecular Biology of the Cell</i> , Newton Press Ltd., p. 326, Fig. 7-43 (July 20, 1995).	<input type="checkbox"/>
	33	ANDERSON, W., "Human gene therapy," <i>Nature</i> 392:25-30 (1998).	<input type="checkbox"/>
	34	AYYOUNE, M. et al., "Lack of tumor recognition by hTERT peptide 540-548-specific CD8 ⁺ T cells from melanoma patients reveals inefficient antigen processing," <i>Eur. J. Immunol.</i> 31:2642-51 (2001).	<input type="checkbox"/>
	35	BEASLEY, E. et al., "Statistical refinement of primer design parameters," <i>PCR Applications</i> , Innis et al., Eds., Academic Press, San Diego, pp. 55-71 (1999).	<input type="checkbox"/>

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	36	BELLONE, M. et al., "In vitro priming of cytotoxic T lymphocytes against poorly immunogenic epitopes by engineered antigen-presenting cells," <i>Eur. J. Immunol.</i> 24:2691-8 (1994).			<input type="checkbox"/>
	37	BELLONE, M. et al., "Rejection of a nonimmunogenic melanoma by vaccination with natural melanoma peptides on engineered antigen-presenting cells," <i>J. Immunol.</i> 158:783-9 (1997).			<input type="checkbox"/>
	38	BENEDICT, C. et al., "The long isoform of terminal deoxynucleotidyl transferase enters the nucleus and, rather than catalyzing nontemplated nucleotide addition, modulates the catalytic activity of the short isoform," <i>J. Exp. Med.</i> 193(1):89-99 (2001).			<input type="checkbox"/>
	39	BOCZKOWSKI, D. et al., "Dendritic cells pulsed with RNA are potent antigen-presenting cells in vitro and in vivo," <i>J. Exp. Med.</i> 184:465-72 (1996).			<input type="checkbox"/>
	40	BOWIE, J. et al., "Deciphering the message in protein sequences: tolerance to amino acid substitutions," <i>Science</i> 257:1306-10 (1990).			<input type="checkbox"/>
	41	BURGESS, W. et al. "Possible dissociation of the heparin-binding and mitogenic activities of heparin-binding (acidic fibroblast) growth factor-1 from its receptor-binding activities by site-directed mutagenesis of a single lysine residue," <i>J. Cell Biol.</i> 111(5 Pt 1):2129-38 (1990).			<input type="checkbox"/>
	42	FLOWER, D. "Towards <i>in silico</i> prediction of immunogenic epitopes," <i>Trends Immunol.</i> 24(12):667-74 (2003).			<input type="checkbox"/>
	43	FROLKIS, M. et al., "Dendritic cells reconstituted with human telomerase gene induce potent cytotoxic T-cell response against different types of tumors," <i>Cancer Gene Ther.</i> 10:239-49 (2003).			<input type="checkbox"/>
	44	GRAY, J. et al., "Cloning and expression of genes for the Oxytricha telomere-binding protein specific subunit interactions in the telomeric complex," <i>Cell</i> 67:807-14 (1991).			<input type="checkbox"/>
	45	GREENBERG, R. et al., "Expression of mouse telomerase reverse transcriptase during development, differentiation, and proliferation," <i>Oncogene</i> 16:1723-30 (1998).			<input type="checkbox"/>
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	46	GREENER, M., "Telomerase: The search for a universal cancer vaccine," <i>Mol. Med. Today</i> 6:257 (2000).			<input type="checkbox"/>
	47	GREENSPAN, N. & Di CERA, E., "Defining epitopes: It's not as easy as it seems," <i>Nature Biotech.</i> 7:936-7 (1999).			<input type="checkbox"/>
	48	GREIDER, C., "Telomerase and senescence: The history, experiment, the future," <i>Curr. Biol.</i> 8(5):R178-81 (1998).			<input type="checkbox"/>
	49	GURA, T., "Antisense has growing pains," <i>Science</i> 270:575-7 (1995).			<input type="checkbox"/>
	50	HARRINGTON, L. et al., "Gel shift and UV cross-linking analysis of <i>Tetrahymena</i> telomerase," <i>J. Biol. Chem.</i> 270(15):8893-901 (1995).			<input type="checkbox"/>
	51	HEISER, A. et al., "Human dendritic cells transfected with renal tumor RNA stimulate polyclonal T-cell responses against antigens expressed by primary and metastatic tumors," <i>Cancer Res.</i> 61:3388-93 (2001).			<input type="checkbox"/>
	52	HEISER, A. et al., "Induction of polyclonal prostate cancer-specific CTL using dendritic cells transfected with amplified tumor RNA," <i>J. Immunol.</i> 166:2953-60 (2001).			<input type="checkbox"/>
	53	HERBERT, J. et al., <u>The Dictionary of Immunology</u> , 3 rd Edition, Academic Press, London, pp. 58-59 (1985).			<input type="checkbox"/>
	54	HERNÁNDEZ, J. et al., "Identification of a human telomerase reverse transcriptase peptide of low affinity for HLA A2.1 that induces cytotoxic T lymphocytes and mediates lysis of tumor cells," <i>Proc. Natl. Acad. Sci. USA</i> 99(19):12275-80 (2002).			<input type="checkbox"/>
	55	HIRASHIMA, M. "Ecalectin/galectin-9, a novel eosinophil chemoattractant: Its function and production," <i>Int. Arch. Allergy Immunol.</i> 122(Suppl. 1):6-9 (2000).			<input type="checkbox"/>

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	56	HOLMES, E., "PSMA specific antibodies and their diagnostic and therapeutic use," <i>Exp. Opin. Invest. Drugs</i> 10(3):511-9 (2001).			<input type="checkbox"/>
	57	HUSTON, J. et al., "Protein engineering of antibody binding sites: Recovery of specific activity in an anti-digoxin single-chain Fv analogue produced in <i>Escherichia coli</i> ," <i>Proc. Natl. Acad. Sci. USA</i> 85:5879-83 (1988).			<input type="checkbox"/>
	58	JIANG, D. et al., "Smooth muscle tissues express a major dominant negative splice variant of the type 3 Ca2+ release channel (ryanodine receptor)," <i>J. Biol. Chem.</i> 278(7):4763-9 (2003).			<input type="checkbox"/>
	59	JOHNSTONE, A. & THORPE, R., <i>Immunochemistry in Practice</i> , 2 nd Ed., Blackwell Scientific Publications, Oxford, pp. 30, 49-50 (1987).			
	60	KIYONO et al., "Both Rb/p16 ^{INK4a} inactivation and telomerase activity are required to immortalize human epithelial cells," <i>Nature</i> 396: 84-88 (Nov. 1998).			<input type="checkbox"/>
	61	KRAMS, M. et al., "Regulation of telomerase activity by alternate splicing of human telomerase reverse transcriptase mRNA in a subset of neuroblastomas," <i>Am. J. Pathol.</i> 159(5):1925-32 (2001).			<input type="checkbox"/>
	62	LANFRANCHI, G. et al., "Identification of 4370 expressed sequence tags from a 3'-end-specific cDNA library of human skeletal muscle by DNA sequencing and filter hybridization," <i>Genome Res.</i> 6:35-42 (1996).			<input type="checkbox"/>
	63	LANGFORD, L. et al., "Telomerase activity in ordinary meningiomas predicts poor outcome," <i>Hum. Pathol.</i> 28(4):416-20 (1997).			
	64	LAZAR, E. et al., "Transforming growth factor alpha: mutation of aspartic acid 47 and leucine 48 results in different biological activities," <i>Mol. Cell. Biol.</i> 8:1247-52 (1988).			<input type="checkbox"/>
	65	MALICKI, J. et al., "A human HOX4B regulatory element provides head-specific expression in <i>Drosophila</i> embryos," <i>Nature</i> 358:345-57 (July 23, 1992).			<input type="checkbox"/>

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	66	MARTIN-RIVERA, L. et al., "Expression of mouse telomerase catalytic subunit in embryos and adult tissues," <i>Proc. Natl. Acad. Sci. USA</i> 95:10471-6 (September 1998).			<input type="checkbox"/>
	67	Microbix Biosystems, Inc., AdMax™ adenovirus vector creation kits, 3 pages. http://www.microbix.com/products/PDFs/AdMaxVectorCreationKits.pdf			<input type="checkbox"/>
	68	MINEV, B. et al., "Cytotoxic T cell immunity against telomerase reverse transcriptase in humans," <i>Proc. Natl. Acad. Sci. USA</i> 97(9):4796-801 (2000).			<input type="checkbox"/>
	69	MORIN, G., "The implications of telomerase biochemistry for human disease," <i>Eur. J. Cancer</i> 33(5):750-60 (1997).			<input type="checkbox"/>
	70	NAIR, D. et al., "Crystal structure of an antibody bound to an immunodominant peptide epitope: Novel features in peptide-antibody recognition," <i>J. Immunol.</i> 165(12):6949-55 (2000).			<input type="checkbox"/>
	71	NAIR, S. et al., "Antigen-presenting cells pulsed with unfractionated tumor-derived peptides are potent tumor vaccines," <i>Eur. J. Immunol.</i> 27:589-97 (1997).			<input type="checkbox"/>
	72	NAIR, S. et al., "Induction of cytotoxic t cell responses and tumor immunity against unrelated tumors using telomerase reverse transcriptase RNA transfected dendritic cells," <i>Nature Med.</i> 6(8):1011-7 (2000).			<input type="checkbox"/>
	73	NGO et al., <u>The Protein Folding Problem and Tertiary Structure Predictor</u> , Mertz et al., Eds., pp. 433, 492-5 (1994).			<input type="checkbox"/>
	74	O'HARE, M. et al., "Conditional immortalization of freshly isolated human mammary fibroblasts and endothelial cells," <i>Proc. Natl. Acad. Sci.</i> 98(2):646-651 (2001).			<input type="checkbox"/>
	75	OHYASHIKI, J. et al., "Quantitative relationship between functionally active telomerase and major telomerase components (hTERT and hTR) in acute leukaemia cells," <i>Brit. J. Cancer</i> 92:1942-7 (2005).			<input type="checkbox"/>

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	76	PARKER, K. et al., "Scheme for ranking potential HLA-A2 binding peptides based on independent binding of individual peptide side-chains," <i>J. Immunol.</i> 152(1):163-75 (1994). 1 page Abstract only			<input type="checkbox"/>
	77	PING, L. et al., "Dramatic increase of telomerase activity during dendritic cell differentiation and maturation," <i>J. Leukoc. Biol.</i> 74:270-6 (2003).			<input type="checkbox"/>
	78	<i>Protein Nucleic Acid and Enzyme</i> 42(9):1407-19 (July 1997). Japanese Language document			
	79	ROITT, I. et al., <i>Immunology</i> , 4 th Edition, Mosby, London, pp. 7.7-7.8 (1996).			<input type="checkbox"/>
	80	SAMBROOK, J. et al., Chapter 17, "Expression of Cloned Genes in Escherichia coli," <i>Molecular Cloning, A Laboratory Manual</i> , Cold Spring Harbor Press, Plainview NY (1989).			<input type="checkbox"/>
	81	SKOLNICK, J. & FETROW, J., "From genes to protein structure and function: Novel applications of computational approaches in the genomic area," <i>Tibtech</i> 18:34-9 (2000).			<input type="checkbox"/>
	82	Stratagene Catalog, p. 39 (1988).			<input type="checkbox"/>
	83	SU, Z. et al., "Immunological and clinical responses in metastatic renal cancer patients vaccinated with tumor RNA-transfected dendritic cells," <i>Cancer Res.</i> 63:2127-33 (2003).			<input type="checkbox"/>
	84	The Adjustment Foundation of Science and Technology Promotion News, Vol. 160 (1997-Jul-11) p. 0-6.			
	85	Tissue Culture, vol. 23[1] (1997-Jan) p.4-11 Japanese language document			

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	86	VONDERHEIDE, R. et al., "Vaccination of cancer patients against telomerase induces functional antitumor CD8+ T lymphocytes," <i>Clin. Cancer Res.</i> 10:828-39 (2004).			<input type="checkbox"/>
	87	YI, X. et al., "Quantitation of telomerase components and hTERT mRNA splicing patterns in immortal human cells," <i>Nucl. Acids Res.</i> 23:4818-25 (2001).			
	88	YOSHIMI OKADA & JOUE IKEDA (Eds.), Japanese Molecular Biology Association edition, <u>Development of Molecular Biology</u> 13, "Expression of information and control in higher plant," Feb 10, 1990, Maruzen Corp. pp. 262-263.			

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